

INDEX TO VOLUME 27

Abnormalities, ultrastructural, in a microspherical ectopic lens, 399
Acetylcholinesterase, butyrylcholinesterase, and [³H]choline acetyltransferase, activities in rabbit retina, subcellular distribution of, 659
Acetyltransferase activity, corneal epithelial choline, by lid closure, suppression of, 359
—, [³H]choline, acetylcholinesterase and butyrylcholinesterase activities in rabbit retina, subcellular distribution of, 659
Acid hyaluronic, in the vitreous, biosynthesis of. V. Studies on a particulate glycosyl transferase, 247
—, —, —, —, —, VI. Isolation of a complex containing hyaluronic acid and glycosyl transferase activity and studies on the activity of a soluble glycosyl transferase, 259
— phosphatase histochemistry, and morphology, of incipient forms, (Cataracts in the aging rat lens), 301
Activities, ATPase, in retinal pigment epithelium and choroid, 445
—, [³H]choline acetyltransferase, acetylcholinesterase and butyrylcholinesterase, in rabbit retina, subcellular distribution of, 659
—, superoxide dismutase, of bovine ocular tissues, 503
Activity, corneal epithelial choline acetyltransferase, by lid closure, suppression of, 359
—, glycosyl transferase, isolation of a complex containing hyaluronic acid and, and studies on the activity of a soluble glycosyl transferase, (Biosynthesis of hyaluronic acid in the vitreous. VI.), 259
—, pentose shunt, in developing chick retina and pigment epithelium: a switch in biochemical expression in cultured pigment epithelial cells, 409
ADAMS, A. J., TANAKA, M. and SCHICHI, H., Concanavalin A binding to rod outer segment membranes: usefulness for preparation of intact disks, 595
Adrenergic drugs and intraocular pressure: effects of selective β -adrenergic agonists, 615
— effects on the isolated rabbit ciliary epithelium, 143
— nerve fibres in the nasociliary but not the ophthalmic nerve of the rat, demonstration of, 607
Age and dexamethasone, effect of; (Intraocular pressure and glycosaminoglycan distribution in the rabbit eye), 567
— genotype, dependence on; delta crystallin accumulation in chick lens epithelial cultures, 365
Aging of pyruvate kinase isozymes in rabbit lens, 427
Agonists, selective β -adrenergic, effects of; (Adrenergic drugs and intraocular pressure), 615
ALBERT, D. M. (see CRAFT, J. L.), 519
Albumin in the rabbit uvea during oculomotor nerve stimulation, capillary permeability to, 655
Alpha- and gamma-crystallins, human, specific radioimmunoassays for, 701
—, sheep, radioimmunoassay of, I. ¹²⁵I Labelling of sheep gamma-crystallin. Characterization of the assays in detecting homologous and heterologous lens crystallins, 61
—, —, —, II. Organ specificity of lens crystallins, 73
American opossum, microperoxisomes in retinal epithelium and tapetum lucidum of the, 343
Amphibian lens, the role of Ca^{2+} in maintaining the Na and K content of the, 335
— rod pigments, studies on the effects of bleaching *in situ* III. Linear dichroism in axolotl red rods before and during bleaching, 101
— IV. Photoresponses recorded intracellularly from axolotl red rods following bleaching flashes, 117
Angiography, fluorescein, in the detection of laser-induced damage to the retina, the role of: a threshold study for Q-switched, neodymium and ruby lasers, 471
— with new dyes, 1
Angiotensin-renin system in the aqueous humor of rabbits, dogs and monkeys, 723
Anterior chamber fluorescein in the monkey eye, the fate of, I. The anterior chamber outflow pathways, 159
— outflow pathways, the. (The fate of anterior chamber fluorescein in the monkey eye I.), 159
Antigenicity, common, in corneal epithelium and other tissues of the bovine eye, demonstration of. (Ocular antigens IX), 81

Antigens, human lens, by crossed immunoelectrophoresis, characterization of, 457
—, ocular, IX. Demonstration of common antigenicity in corneal epithelium and other tissues of the bovine eye, 81

Aqueous humor dynamics, a fluorophotometric study of the effect of topical timolol on, 135
— — formation in the rhesus monkey (*Macaca mulatta*), the effect of carotid artery ligation on, 687
— — of rabbits, dogs and monkeys, renin-angiotensin system in the, 723

Arterial pressure, ophthalmic, a clinical procedure for the measurements of the ocular pulse-pressure relationship and the, 17

Artery ligation, carotid, on aqueous humor formation in the rhesus monkey (*Macaca mulatta*), the effect of, 687

ATPase activities in retinal pigment epithelium and choroid, 445

Atropine, the effect of, and muscarinic receptor binding, on the guinea-pig iris, 577

ATTERWILL, C. K. and NEAL, M. J., Subcellular distribution of [³H]choline acetyltransferase, acetylcholinesterase and butyrylcholinesterase activities in rabbit retina, 659

AUGYSTEYN, R. C. (see ROGERS, K. M.), 719

Autoradiographic study; (growth of the sphincter muscle and neuroepithelia of the iris and ciliary body in rat), 539

Axolotl red rods before and during bleaching, linear dichroism in. (Studies on the effects of bleaching amphibian rod pigments in situ III.), 101
— — — following bleaching flashes, photoresponses recorded intracellularly from, (Studies on the effects of bleaching amphibian rod pigments IV), 117

BALAZS, E. A. (see EL-MOFTY, A.), 499

BANROQUES, J., GREGORI, C. and SCHAPIRA, F., Aging of pyruvate kinase isozymes in rabbit lens, 427

BECKER, B. (see KRUPIN, T.), 129
—, — (see YABLONSKI, M. E.), 135

BENEDETTI, E. L. (see VERMORKEN, A. J. M.), 727

BENNER, J. (see RILEY, M. V.), 445

BENTLEY, P. J. and CRUZ, E., The role of Ca²⁺ in maintaining the Na and K content of the amphibian lens, 335

BERSON, E. L. (see SCHMIDT, S. Y.), 191

Beta-adrenergic agonists, selective, effects of, (Adrenergic drugs and intraocular pressure), 615

BEYER-MEARS, A., FARNSWORTH, P. N., FU, S.-C. J. and BURKE, P., Progressive galactose cataractogenesis and regional susceptibility in the neonatal lens, 275
—, —, —, —, —, — and YEH, C-K., Regional analyses of the reversal process in the neonatal galactose cataract, 627

BHATTACHERJEE, P. and EAKINS, K. E., The intraocular pressure lowering effect of colchicine, 649

BILL, A. (see STJERN SCHANTZ, J.), 655

Binding, concanavalin A, to rod outer segment membranes: usefulness for preparation of intact disks, 595
—, muscarinic receptor, and the effect of atropine on the guinea-pig iris, 577

Biochemical expression in cultured pigment epithelial cells, a switch in; (pentose shunt activity in developing chick retina and pigment epithelium, 409

Biosynthesis of hyaluronic acid in the vitreous. V. Studies on a particulate hyalocyte glycosyl transferase, 247
— VI. Isolation of a complex containing hyaluronic acid and glycosyl transferase activity and studies on the activity of a soluble glycosyl transferase, 259

—, proteoglycan, in cultures of corneas and corneal stroma cells from adult rabbits, 175

BLACIK, L. J. (see KNEPPER, P. A.), 567

BLANCO, J. (see FARNSWORTH, P. N.), 399

Bleaching amphibian rod pigments, studies on the effects of in situ III. Linear dichroism in axolotl red rods before and during bleaching, 101
— — — — —, IV. Photoresponses recorded intracellularly from axolotl red rods following bleaching flashes, 117
— — — — — flashes, photoresponses recorded intracellularly from axolotl red rods following. (Studies on the effects of bleaching amphibian rod segments IV), 117

BLOEMENDAL, H. (see VERMORKEN, A. J. M.), 727

Blood, whole, and plasma, fluorescence characteristics of sodium fluorescein in, 417
Body, ciliary, and iris, in rat, growth of the sphincter muscle and neuropithelia of the: autoradiographic study, 539
BORLAND, R. G., BRENNAN, D. H., MARSHALL, J. and VIVEASH, J. P., The role of fluorescein angiography in the detection of laser-induced damage to the retina: a threshold study for Q-switched, neodymium and ruby lasers, 471
Bovine eye, demonstration of common antigenicity in corneal epithelium and other tissues of the. (Ocular antigens IX), 81
— ocular tissues, superoxide dismutase activities of, 503
BOWMAN, K. A. (see GREEN, K.), 239
BRADLEY, R. H. (see HAZLETT, L. D.), 343
BREEN, M. (see KNEPPER, P. A.), 567
BRENNAN, D. H. (see BORLAND, R. G.), 471
BRINKMAN, C. J. J., OERLEMANS-VAN ZUTPHEN, M. P. J. and BROEKHUYSE, R. M., Ocular antigens IX. Demonstration of common antigenicity in corneal epithelium and other tissues of the bovine eye, 81
BROEKHUYSE, R. M. (see BRINKMAN, C. J. J.), 81
BROWN, G. M. (see BUBENIK, G. A.), 323
BUBENIK, G. A., PORTILL, R. A., BROWN, G. M. and GROTA, L. J., Melatonin in the retina and the Harderian gland. Ontogeny, diurnal variations and melatonin treatment, 323
BURKE, P. (see BEYER-MEARS, A.), 275
—, P. A. (see FARNSWORTH, P. N.), 399
Butyrylcholinesterase, [^3H]choline acetyltransferase, and acetylcholinesterase, activities in rabbit retina, subcellular distribution of, 659

Ca²⁺ in maintaining the Na and K content of the amphibian lens, the role of, 335
Calcium into the rabbit third ventricle, increased intraocular pressure and hypothermia following injection of, 129
Calf lens soluble proteins, effects of sucrose on interactions of, 553
Cannabinoids, topical, on intraocular pressure, a comparison of, 239
Capillary permeability to albumin in the rabbit uvea during oculomotor nerve stimulation, 655
CARPER, D. (see RUSSELL, P.), 673
Carotid artery ligation on aqueous humor formation in the rhesus monkey (*Macaca mulatta*), the effect of, 687
CASTANY, M. A. (see DELORI, F. C.), 417
Cataract, neonatal galactose, regional analyses of the reversal process in the, 627
—, nuclear, increase of non-disulphide cross-links during progress of, 731
Cataractogenesis, progressive galactose, and regional susceptibility in the neonatal lens, 275
Cataractous, and normal, human lenses, glutathione reductase in, 719
Cataracts in the aging rat lens. Morphology and acid phosphatase histochemistry of incipient forms, 301
Cell membrane polypeptide, chick lens fiber, immunofluorescent study of a, 151
Cells, chick lens fiber, gap junctions of, 495
—, corneal stroma, and corneas, from adult rabbits, proteoglycan biosynthesis in cultures of, 175
—, cultured pigment epithelial, a switch in biochemical expression in; (pentose shunt activity in developing chick retina and pigment epithelium), 409
CHADER, G. J. (see MASTERTON, E.), 409
CHENG, H.-M., CHYLACK, L. T. Jr. and CHIEN, J., Control of pyruvate kinase activity in the lens, 39
Chick lens epithelial cultures, delta crystallin accumulation in: dependence on age and genotype, 365
— — — fiber cell membrane polypeptide, immunofluorescent study of a, 151
— — — cells, gap junctions of, 495
— — — retina, developing and pigment epithelium, pentose shunt activity in: a switch in biochemical expression in cultured pigment epithelial cells, 409
Chicken ciliary epithelium, direct contact at the epithelial-mesenchymal interface during the early development of the, 691
CHIEN, J. (see CHENG, H.-M.), 39
[^3H]Choline acetyltransferase, acetylcholinesterase and butyrylcholinesterase activities in rabbit retina, subcellular distribution of, 659

Choline acetyltransferase activity, corneal epithelial, by lid closure, suppression of, 359
 Choroid, and retinal pigment epithelium, ATPase activities in, 445
 CHYLACK, L. T. Jr. (see CHENG, H.-M.), 39
 Ciliary body, and iris, in rat, growth of the sphincter muscle and neuroepithelia of the: auto-radiographic study, 539
 —— —— /iris in rabbits, the effect of sodium iodate on the, 87
 —— epithelium, chicken, direct contact at the epithelial-mesenchymal interface during the early development of the, 691
 —— ——, isolated, of the toad as studied by electrical measurements, characteristics of ion transport across the, 215
 —— ——, isolated rabbit, adrenergic effects on the, 143
 —— —— permeability, effect of parasympathetic and vasoactive drugs on, 533
 —— ——, proof that it can regenerate, 199
 CLAYTON, R. M. (see DE POMERAI, D. I.), 365
 CLOSS, O. (see SANDBERG, H. O.), 61, 73, 457, 701
 COHEN, A. I. (see MITZEL, D. L.), 27
 Colchicine, the intraocular pressure lowering effect of, 649
 Concanavalin A binding to rod outer segment membranes: usefulness for preparation of intact disks, 595
 Connective tissue in the stroma iridis of man and monkey, the arrangement of the, 349
 Corneal endothelium, isolated rabbit and human, intracellular potentials of, 511
 —— epithelial choline acetyltransferase activity by lid closure, suppression of, 359
 —— epithelium and other tissues of the bovine eye, demonstration of common antigenicity in. (Ocular antigens IX.), 81
 —— stroma cells, and corneas, from adult rabbits, proteoglycan biosynthesis in cultures of, 175
 CÖSTER, L. (see DAHL, I.-M. S.), 175
 CRAFT, J. L., ROBINSON, N. L., ROTH, N. A. and ALBERT, D. M., Scanning electron microscopy of retinoblastoma, 519
 Cross-links, non-disulphide, during progress of nuclear cataract, increase of, 731
 Crossed immunoelectrophoresis, characterization of human lens antigens by, 457
 CROUCH, R., PRIEST, D. G. and DUKE, E. J., Superoxide dismutase activities of bovine ocular tissues, 503
 CRUZ, E. (see BENTLEY, P. J.), 335
 Crystalline lens of the rabbit eye, evidence for two sodium pumps in the, 637
 Crystallins, homologous and heterologous lens, characterization of the assays in detecting. (Radioimmunoassay of sheep alpha- and gamma-crystallins I. ^{125}I Labelling of sheep gamma-crystallin), 61
 ——, lens, organ specificity of. (Radioimmunoassay of sheep alpha- and gamma-crystallins II), 73
 ——, ——, the development and application of a radioimmunoassay to, 673
 CSF spaces of rabbit optic nerve, removal of horseradish peroxidase and fluorescein labelled dextran from. A light and electron microscopic study, 585
 Cyclic nucleotide and energy metabolism of intact mouse retina in situ and in vitro, comparison of, 27
 —— nucleotides on outflow facility in the vervet monkey, influences of, 387

D'ANNA, S. A. (see HOCHHEIMER, B. F.), 1
 DAHL, I.-M. S. and CÖSTER, L., Proteoglycan biosynthesis in cultures of corneas and corneal stroma cells from adult rabbits, 175
 Damage, laser-induced, to the retina, the role of fluorescein angiography in the detection of: a threshold study for Q-switched, neodymium and ruby lasers, 471
 DE LA MOTTE, D. J., Removal of horseradish peroxidase and fluorescein-labelled dextran from CSF spaces of rabbit optic nerve. A light and electron microscopic study, 585
 DE POMERAI, D. I., CLAYTON, R. M. and PRITCHARD, D. J., Delta crystallin accumulation in chick lens epithelial cultures: dependence on age and genotype, 365
 DEVRIES, G. W. (see MITZEL, D. L.), 27
 Degeneration, hereditary retinal, taurine uptake in isolated retinas of normal rats and rats with, 191

Degeneration, macular, in rhesus monkey (*Macaca mulatta*), 499
— of nerve terminals after administration of epinephrine, an electron microscopic study of, 377
DELORI, F. C., CASTANY, M. A. and WEBB, R. H., Fluorescence characteristics of sodium fluorescein in plasma and whole blood, 417
Delta crystallin accumulation in chick lens epithelial cultures: dependence on age and genotype, 365
 δ -crystallins, synthesized in lenses cultured with and without vitreous bodies, differences in isoelectric points and subunit compositions of, 227
Dexamethasone, and age, effect of: (Intraocular pressure and glycosaminoglycan distribution in the rabbit eye), 567
Dextran, fluorescein-labelled, and horseradish peroxidase, from CSF spaces of rabbit optic nerve, removal of. A light and electron microscopic study, 585
Dichroism, linear, in axolotl red rods before and during bleaching. (Studies on the effects of bleaching amphibian rod pigments *in situ* III.), 101
Disks, intact, usefulness for preparation of: (Concanavalin A binding to rod outer segment membranes), 595
Dismutase, superoxide, activities of bovine ocular tissue, 503
Diurnal variations, melatonin treatment, and ontogeny, (Melatonin in the retina and the Harderian gland), 323
Dogs, monkeys, and rabbits, renin-angiotensin system in the aqueous humor of, 723
Drugs, adrenergic, and intraocular pressure: effect of selective β -adrenergic agonists, 615
—, parasympathetic and vasoactive, on ciliary epithelium permeability, effect of, 533
DUKE, E. J. (see CROUCH, R.), 503
DUNIA, I. (see VERMORKEN, A. J. M.), 727
Dyes, new, angiography with, 1
Dynamics, aqueous humor, a fluorophotometric study of the effect of topical timolol on, 135

EAKINS, K. E. (see BHATTACHERJEE, P.), 649
Ectopic lens, microspherical, ultrastructural abnormalities in a, 399
EISNER, G. (see EL-MOFTY, A.), 499
EL-MOFTY, A., GOURAS, P., EISNER, G. and BALAZS, E. A., Macular degeneration in rhesus monkey (*Macaca mulatta*), 499
Electrical measurements, characteristics of ion transport across the isolated ciliary epithelium of the toad, as studied by, 215
Electron microscopic, and light study, a. (Removal of horseradish peroxidase and fluorescein-labelled dextran from CSF spaces of rabbit optic nerve), 585
— — — study of degeneration of nerve terminals after administration of epinephrine, 377
— microscopy, scanning, of retinoblastoma, 519
Emission, Raman and fluorescent, of the human lens. A new fluorophor, 737
Endothelium, isolated rabbit and human corneal, intracellular potentials of, 511
Energy metabolism, and cyclic nucleotide, of intact mouse retina *in situ* and *in vitro*, comparison of, 27
Epinephrine, an electron microscopic study of degeneration of nerve terminals after administration of, 377
Epithelial cells, cultured pigment, a switch in biochemical expression in; (pentose shunt activity in developing chick retina and pigment epithelium), 409
— choline acetyltransferase activity, corneal, by lid closure, suppression of, 359
— cultures, chick lens, delta crystallin accumulation in: dependence on age and genotype, 365
— — —mesenchymal interface during the early development of the chicken ciliary epithelium, direct contact at the, 691
Epithelium, chicken ciliary, direct contact at the epithelial-mesenchymal interface during the early development of the, 691
—, ciliary, permeability, effect of parasympathetic and vasoactive drugs on, 533
— — —, proof that it can regenerate, 199
—, corneal, and other tissues of the bovine eye, demonstration of common antigenicity in. (Ocular antigens IX), 81
—, isolated ciliary, of the toad as studied by electrical measurements, characteristics of ion transport across the, 215
— — — rabbit ciliary, adrenergic effects on the, 143

Epithelium, lens, nuclei from, 727
 —, pigment, and developing chick retina, pentose shunt activity in: a switch in biochemical expression in cultured pigment epithelial cells, 409
 —, retinal, and tapetum lucidum of the American opossum, microperoxisomes in, 343
 —, —— pigment, and choroid, ATPase activities in, 445
 ERNST, W. and KEMP, C. M., Studies on the effects of bleaching amphibian rod pigments in situ III. Linear dichroism in axolotl red rods before and during bleaching, 101
 —, ——, and LAKE, N., Studies on the effects of bleaching amphibian rod pigments IV. Photoresponses recorded intracellularly from axolotl red rods following bleaching flashes, 117
 Eye, bovine, demonstration of common antigenicity in corneal epithelium and other tissues of the. (Ocular antigens IX), 81
 —, monkey, the fate of anterior chamber fluorescein in the, I. The anterior chamber outflow pathways, 159
 —, rabbit, evidence for two sodium pumps in the crystalline lens of the, 637
 —, ——, intraocular pressure and glycosaminoglycan distribution in the: effect of age and dexamethasone, 567

FARNSWORTH, P. N., BURKE, P. A., BLANCO, J. and MALTZMAN, B., Ultrastructural abnormalities in a microspherical ectopic lens, 399
 —, —— (see BEYER-MEARS, A.), 275, 627
 FERRENDELLI, J. A. (see MITZEL, D. L.), 27
 Fiber cell membrane polypeptide, chick lens, immunofluorescent study of a, 151
 —— cells, chick lens, gap junctions of, 495
 Fibres, adrenergic nerve, in the nasociliary but not the ophthalmic nerve of the rat, demonstration of, 607
 FLACH, A. and WOOD, I., An electron microscopic study of degeneration of nerve terminals after administration of epinephrine, 377
 Fluorescein angiography in the detection of laser-induced damage to the retina, the role of: a threshold study for Q-switched, neodymium and ruby lasers, 471
 —, anterior chamber, in the monkey eye, the fate of, I. The anterior chamber outflow pathways, 159
 —— labelled dextran, and horseradish peroxidase, from CSF spaces of rabbit optic nerve, removal of. A light and electron microscopic study, 585
 ——, sodium, in plasma and whole blood, fluorescence characteristics of, 417
 Fluorescence characteristics of sodium fluorescein in plasma and whole blood, 417
 Fluorescent, and Raman, emission of the human lens. A new fluorophor, 737
 Fluorophor, a new. (Raman and fluorescent emission of the human lens), 737
 Fluorophotometric study of the effect of topical timolol on aqueous humor dynamics, 135
 FOULDS, W. S. (see JOHNSON, N. F.), 45
 FU, S.-C. J. (see BEYER-MEARS, A.), 275, 627

Galactose cataract, neonatal, regional analyses of the reversal process in the, 627
 —— cataractogenesis, progressive, and regional susceptibility in the neonatal lens, 275
 Gamma, and alpha, crystallins, human, specific radioimmunoassays for, 701
 —, ——, sheep, radioimmunoassay of, I. ^{125}I Labelling of sheep gamma-crystallin. Characterization of the assays in detecting homologous and heterologous lens crystallins, 61
 —, ——, II. Organ specificity of lens crystallins, 73
 Gap junctions of chick lens fiber cells, 495
 Genotype, and age, dependence on; delta crystallin accumulation in chick lens epithelial cultures, 365
 Gland, Harderian, and the retina, melatonin in the. Ontogeny, diurnal variations and melatonin treatment, 323
 Glutamine synthetase in the developing rat retina: an immunohistochemical study, 435
 ——, effect of triiodothyronine on, 681
 Glutathione reductase in normal and cataractous human lenses, 719
 Glycosaminoglycan distribution, and intraocular pressure, in the rabbit eye: effect of age and dexamethasone, 567

Glycosyl transferase activity, isolation of a complex containing hyaluronic acid and, and studies on the activity of a soluble glycosyl transferase (Biosynthesis of hyaluronic acid in the vitreous VI), 259
—, particulate halocyte, studies on a, (Biosynthesis of hyaluronic acid in the vitreous. V), 247

GORTHY, W. C., Cataracts in the aging rat lens. Morphology and acid phosphatase histochemistry of incipient forms, 301

GORAS, P. (see EL-MOFTY, A.), 499

GREEN, K. and GRIFFIN, C., Adrenergic effects on the isolated rabbit ciliary epithelium, 143
—, —, —, — and HENSLEY, A., Effect of parasympathetic and vasoactive drugs on ciliary epithelium permeability, 533
—, —, WYNN, H. and BOWMAN, K. A., A comparison of topical cannabinoids on intraocular pressure, 239
—, — (see SHERMAN, S. H.), 159

GREGORI, C. (see BANROQUES, J.), 427

GRIFFIN, C. (see GREEN, K.), 143, 533

GROTA, L. J. (see BUBENIK, G. A.), 323

GROVE, J. C. (see KRUPIN, T.), 129

GUGENHEIM, S. M. (see KRUPIN, T.), 129

Guinea-pig iris, muscarinic receptor binding and the effect of atropine on the, 577

HALL, I. A. (see MITZEL, D. L.), 27

HAMILTON, P. M. (see NEVILLE, M. C.), 637

Harderian gland, and the retina, melatonin in the. Ontogeny, diurnal variations and melatonin treatment, 323

HARDING, C. V. (see KUSZAK, J.), 495

HAZLETT, J. C. (see HAZLETT, L. D.), 343

HAZLETT, L. D., HAZLETT, J. C., IRELAND, M. and BRADLEY, R. H., Microperoxisomes in retinal epithelium and tapetum lucidum of the American opossum, 343

HENSLEY, A. (see GREEN, K.), 533

Heterologous, and homologous, lens crystallins, characterization of the assays in detecting. (Radioimmunoassay of sheep alpha- and gamma-crystallins I. ^{125}I Labelling of sheep gamma-crystallin), 61

HIFNAWI, E. EL., Direct contact at the epithelial-mesenchymal interface during the early development of the chicken ciliary epithelium, 691

High affinity uptake sites for taurine in the retina, 713

HILDERINK, J. M. H. C. (see VERMORKEN, A. J. M.), 727

Histochemistry, acid phosphatase, and morphology, of incipient forms, (Cataracts in the aging rat lens), 301

HOCHHEIMER, B. F. and D'ANNA, S. A., Angiography with new dyes, 1

HOENDERS, H. J. (see KRAMPS, J. A.), 731

Homologous and heterologous lens crystallins, characterization of the assays in detecting. (Radioimmunoassay of sheep alpha- and gamma-crystallins I. ^{125}I Labelling of sheep gamma-crystallin), 61

Horseradish peroxidase and fluorescein-labelled dextran from CSF spaces of rabbit optic nerve, removal of. A light and electron microscopic study, 585

Human alpha and gamma crystallins, specific radioimmunoassays for, 701
—, and rabbit, corneal endothelium, isolated, intracellular potentials of, 511
— lens antigens by crossed immunoelectrophoresis, characterization of, 457
—, Raman and fluorescent emission of the. A new fluorophor, 737
— lenses, normal and cataractous, glutathione reductase in, 719
— meibomian lipid composition, individual variations in, 289

Hyalocyte glycosyl transferase, particulate, studies on a. (Biosynthesis of hyaluronic acid in the vitreous. V), 247

Hyaluronic acid in the vitreous, biosynthesis of. V. Studies on a particulate halocyte glycosyl transferase, 247
—, VI. Isolation of a complex containing hyaluronic acid and glycosyl transferase activity and studies on the activity of a soluble glycosyl transferase, 259

Hypothermia, and increased intraocular pressure, following injection of calcium into the rabbit third ventricle, 129

IKEMOTO, F. and YAMAMOTO, K., Renin-angiotensin system in the aqueous humor of rabbits, dogs and monkeys, 723

125I Labelling of sheep gamma-crystallin. Characterization of the assays in detecting homologous and heterologous lens crystallins. (Radioimmunoassay of sheep alpha- and gamma-crystallins I.), 61

Immunolectrophoresis, crossed, characterization of human lens antigens by, 457

Immunofluorescent study of a chick lens fiber cell membrane polypeptide, 151

Immunohistochemical study, an; (glutamine synthetase in the developing rat retina), 435

Interactions of calf lens soluble proteins, effects of sucrose on, 553

Interface, epithelial-mesenchymal, during the early development of the chicken ciliary epithelium, direct contact at the, 691

Intracellular potentials of isolated rabbit and human corneal endothelium, 511

Intraocular pressure, a comparison of topical cannabinoids on, 239

— — — and adrenergic drugs: effects of selective β -adrenergic agonists, 615

— — — and glycosaminoglycan distribution in the rabbit eye: effect of age and dexamethasone, 567

— — —, increased, and hypothermia following injection of calcium into the rabbit third ventricle, 129

— — — lowering effect of colchicine, the, 649

Ion transport across the isolated ciliary epithelium of the toad as studied by electrical measurements, characteristics of, 215

IRELAND, M. (see HAZLETT, L. D.), 343

Iridis, stroma, of man and monkey, the arrangement of the connective tissue in the, 349

Iris and ciliary body in rat, growth of the sphincter muscle and neuroepithelia of the: autoradiographic study, 539

— /ciliary body in rabbits, the effect of sodium iodate on the, 87

— — —, guinea-pig, muscarinic receptor binding and the effect of atropine on the, 577

Ischaemia, total acute, on the structure of the rabbit retina, the effects of, 45

Isoelectric points and subunit compositions of δ -crystallins synthesized in lenses cultured with and without vitreous bodies, differences in, 227

Isozymes, pyruvate kinase, in rabbit lens, aging of, 427

ISRAEL, P. (see MASTERSON, E.), 409

JACOBSON, B., Biosynthesis of hyaluronic acid in the vitreous. V. Studies on a particulate hyalocyte glycosyl transferase, 247

— — — — — VI. Isolation of a complex containing hyaluronic acid and glycosyl transferase activity and studies on the activity of a soluble glycosyl transferase, 259

JOHNSON, N. F. and FOULDS, W. S., The effects of total acute ischaemia on the structure of the rabbit retina, 45

K, and Na, content of the amphibian lens, the role of Ca^2 in maintaining the, 335

KEMP, C. M. (see ERNST, W.), 101, 117

Kinase isozymes, pyruvate, in rabbit lens, aging of, 427

— — —, pyruvate, activity in the lens, control of, 39

KINOSHITA, J. H. (see RUSSELL, P.), 673

KOCH, M. (see WIEDERHOLT, M.), 511

KNEPPER, P. A., BREEN, M., WEINSTEIN, H. G. and BLACIK, L. J., Intraocular pressure and glycosaminoglycan distribution in the rabbit eye: effect of age and dexamethasone, 567

KRAMPS, J. A., HOENDERS, H. J. and WOLLENSAK, J., Increase of non-disulphide cross-links during progress of nuclear cataract, 731

KRUPIN, T., GROVE, J. C., GUGENHEIM, S. M., OESTRICH, C. J., PODOS, S. M. and BECKER, B., Increased intraocular pressure and hypothermia following injection of calcium into the rabbit third ventricle, 129

KUCK, J. F. R. Jr. and YU, N-T., Raman and fluorescent emission of the human lens. A new fluorophor, 737

KUPFER, C. (see ROSS, K. S.), 687

KUSZAK, J., MAISEL, H. and HARDING, C. V., Gap junctions of chick lens fiber cells, 495

LAKE, N., MARSHALL, J. and VOADEN, M. J., High affinity uptake sites for taurine in the retina, 713
—, — (see ERNST, W.), 117

LANGHAM, M. E. and TO'MEY, K. F., A clinical procedure for the measurements of the ocular pulse-pressure relationship and the ophthalmic arterial pressure, 17

Laser-induced damage to the retina, the role of fluorescein angiography in the detection of: a threshold study for Q-switched, neodymium and ruby lasers, 471

Lasers, Q-switched, neodymium and ruby, a threshold study for; (the role of fluorescein angiography in the detection of laser-induced damage to the retina), 471

LATIES, A. M. (see SHERMAN, S. H.), 159

Lens, aging rat, cataracts in the. Morphology and acid phosphatase histochemistry of incipient forms, 301
—, amphibian, the role of Ca^{2+} in maintaining the Na and K content in the, 335
— antigens, human, by crossed immunoelectrophoresis, characterization of, 457
—, control of pyruvate kinase activity in the, 39
—, crystalline, of the rabbit eye, evidence for two sodium pumps in the, 637
— crystallins, characterization of the assays in detecting homologous and heterologous. (Radioimmunoassay of sheep alpha- and gamma-crystallins I. ^{125}I Labelling of sheep gamma-crystallin), 61
—, organ specificity of. (Radioimmunoassay of sheep alpha- and gamma-crystallins II), 73
—, —, the development and application of a radioimmunoassay to, 673
— epithelial cultures, chick, delta crystallin accumulation in: dependence on age and genotype, 365
— epithelium, nuclei from, 727
— fiber cell membrane polypeptide, chick, immunofluorescent study of a, 151
— fiber cells, chick, gap junctions of, 495
—, human, Raman and fluorescent emission of the. A new fluorophor, 737
—, microspherical ectopic, ultrastructural abnormalities in a, 399
—, neonatal, progressive galactose cataractogenesis and regional susceptibility in the, 275
—, rabbit, aging of pyruvate kinase isozymes in, 427
— soluble proteins, calf, effects of sucrose on interactions of, 553

Lenses cultured with and without vitreous bodies, differences in isoelectric points and subunit compositions of δ -crystallins synthesized in, 227
—, normal and cataractous human, glutathione reductase in, 719

LI, L.-K., Effects of sucrose on interactions of calf lens soluble proteins, 553

Lid closure, suppression of corneal epithelial choline acetyltransferase activity by, 359

Ligation, carotid artery, on aqueous humor formation in the rhesus monkey (*Macaca mulatta*), the effect of, 687

Light and electron microscopic study, a. (Removal of horseradish peroxidase and fluorescein-labelled dextran from CSF spaces of rabbit optic nerve), 585

Linear dichroism in axolotl red rods before and during bleaching. (Studies on the effects of bleaching amphibian rod pigments in situ III.), 101

Lipid, human meibomian, composition, individual variations in, 289

Lowering effect, intraocular pressure, of colchicine, the, 649

Lucidum, tapetum, and retinal epithelium, of the American opossum, microperoxisomes in, 343

LUND KARLSEN, R., Muscarinic receptor binding and the effect of atropine on the guinea-pig iris, 577

MACRI, F. J. (see Ross, K. S.), 687

Macular degeneration in rhesus monkey (*Macaca mulatta*), 499

MAISEL, H. (see KUSZAK, J.), 495
—, — (see WAGGONER, P. R.), 151

MALTZMAN, B. (see FARNSWORTH, P. N.), 399

Man and monkey, the arrangement of the connective tissue in the stroma iridis of, 349

MARSHALL, J. (see BORLAND, R. G.), 471
—, — (see LAKE, N.), 713

MASTERSON, E., ISRAEL, P. and CHADER, G. J., Pentose shunt activity in developing chick retina and pigment epithelium: a switch in biochemical expression in cultured pigment epithelial cells, 409

Meibomian lipid, human, composition, individual variations in, 289
Melatonin in the retina and the Harderian gland. Ontogeny, diurnal variations and melatonin treatment, 323
— treatment, ontogeny, diurnal variations and. (Melatonin in the retina and the Harderian gland), 323
Membrane polypeptide, chick lens fiber cell, immunofluorescent study of a, 151
Membranes, rod outer segment, concanavalin A binding to: usefulness for preparation of intact disks, 595
Mesenchymal-epithelial interface during the early development of the chicken ciliary epithelium, direct contact at the, 691
Metabolism, energy, and cyclic nucleotide, of intact mouse retina in situ and in vitro, comparison of, 27
Microperoxisomes in retinal epithelium and tapetum lucidum of the American opossum, 343
Microspherical ectopic lens, ultrastructural abnormalities in a, 399
MINDEL, J. S. and MIRTAG, T. W., Suppression of corneal epithelial choline acetyltransferase activity by lid closure, 359
MITTAG, T. W. (see MINDEL, J. S.), 359
MITZEL, D. L., HALL, I. A., DEVRIES, G. W., COHEN, A. I. and FERRENDELLI, J. A., Comparison of cyclic nucleotide and energy metabolism of intact mouse retina in situ and in vitro, 27
Monkey, and man, the arrangement of the connective tissue in the stroma iridis of, 349
— eye, the fate of anterior chamber fluorescein in the, I. The anterior chamber outflow pathways, 159
—, rhesus, (*Macaca mulatta*), macular degeneration in, 499
—, —, (— —), the effect of carotid artery ligation on aqueous humor formation in the, 687
—, vervet, influences of cyclic nucleotides on outflow facility in the, 387
Monkeys, rabbits, and dogs, renin-angiotensin system in the aqueous humor of, 723
Morphology and acid phosphatase histochemistry of incipient forms. (Cataracts in the aging rat lens), 301
Mouse retina, intact, in situ and in vitro, comparison of cyclic nucleotide and energy metabolism of, 27
Muscarinic receptor binding and the effect of atropine on the guinea-pig iris, 577
Muscle, sphincter, and neuroepithelia of the iris and ciliary body in rat, growth of the: autoradiographic study, 539

Na and K content of the amphibian lens, the role of Ca^{2+} in maintaining the, 335
Nasociliary but not the ophthalmic nerve of the rat, demonstration of adrenergic nerve fibres in the, 607
NEAL, M. J. (see ATTERRILL, C. K.), 659
Neodymium, ruby, and Q-switched lasers, a threshold study for; (the role of fluorescein angiography in the detection of laser-induced damage to the retina), 471
Neonatal galactose cataract, regional analyses of the reversal process in the, 627
— lens, progressive galactose cataractogenesis and regional susceptibility in the, 275
Nerve fibres, adrenergic, in the nasociliary but not the ophthalmic nerve of the rat, demonstration of, 607
—, nasociliary, but not the ophthalmic, of the rat, demonstration of adrenergic nerve fibres in, 607
—, rabbit optic, removal of horseradish peroxidase and fluorescein-labelled dextran from CSF spaces of. A light and electron microscopic study, 585
— stimulation, oculomotor, capillary permeability to albumin in the rabbit uvea during, 655
— terminals after administration of epinephrine, an electron microscopic study of degeneration of, 377
NEUFELD, A. H., Influences of cyclic nucleotides on outflow facility in the vervet monkey, 387
Neuroepithelia, and sphincter muscle, of the iris and ciliary body in rat, growth of the: autoradiographic study, 539
NEVILLE, M. C., PATERSON, C. A. and HAMILTON, P. M., Evidence for two sodium pumps in the crystalline lens of the rabbit eye, 637
Non-disulphide cross-links during progress of nuclear cataract, increase of, 731
NORENBERG, M. D. (see RIEPE, R. E.), 435, 681

Nuclear cataract, increase of non-disulphide cross-links during progress of, 731

Nuclei from lens epithelium, 727

Nucleotide, cyclic, and energy metabolism of intact mouse retina *in situ* and *in vitro*, comparison of, 27

Nucleotides, cyclic, on outflow facility in the vervet monkey, influences of, 387

Ocular antigens IX. Demonstration of common antigenicity in corneal epithelium and other tissues of the bovine eye, 81

Ocular pulse-pressure relationship and the ophthalmic arterial pressure, a clinical procedure for the measurements of the, 17

Ocular tissues, bovine, superoxide dismutase activities of, 503

Oculomotor nerve stimulation, capillary permeability to albumin in the rabbit uvea during, 655

OERLEMANS-VAN ZUTPHEN, M. P. J. (see BRINKMAN, C. J. J.), 81

OESTRICH, C. J. (see KRUPIN, T.), 129

Ontogeny, diurnal variations and melatonin treatment, (Melatonin in the retina and the Harderian gland), 323

Ophthalmic arterial pressure, a clinical procedure for the measurements of the ocular pulse-pressure relationship and the, 17

Opossum, American, microperoxisomes in retinal epithelium and tapetum lucidum of the, 343

Optic nerve, rabbit, removal of horseradish peroxidase and fluorescein-labelled dextran from CSF spaces of. A light and electron microscopic study, 585

Organ specificity of lens crystallins. (Radioimmunoassay of sheep alpha- and gamma-crystallins II), 73

Outer segment membranes, rod, concanavalin A binding to: usefulness for preparation of intact disks, 595

Outflow facility in the vervet monkey, influences of cyclic nucleotides on, 387

— pathways, anterior chamber. (The fate of anterior chamber fluorescein in the monkey eye I), 159

Parasympathetic and vasoactive drugs on ciliary epithelium permeability, effect of, 533

PATERSON, C. A. (see NEVILLE, M. C.), 637

Pathways, the anterior chamber outflow. (The fate of anterior chamber fluorescein in the monkey eye I), 159

Pentose shunt activity in developing chick retina and pigment epithelium: a switch in biochemical expression in cultured pigment epithelial cells, 409

Permeability, capillary, to albumin in the rabbit uvea during oculomotor nerve stimulation, 655

—, ciliary epithelium, effect of parasympathetic and vasoactive drugs on, 533

Peroxidase, horseradish, and fluorescein-labelled dextran from CSF spaces of rabbit optic nerve, removal of. A light and electron microscopic study, 585

Phosphatase histochemistry, acid, and morphology, of incipient forms. (Cataracts in the aging rat lens), 301

Photoresponses recorded intracellularly from axolotl red rods following bleaching flashes. (Studies on the effects of bleaching amphibian rod pigments IV), 117

PIATIGORSKY, J., Differences in isoelectric points and subunit compositions of δ -crystallins synthesized in lenses cultured with and without vitreous bodies, 227

Pigment epithelial cells, cultured, a switch in biochemical expression in; (pentose shunt activity in developing chick retina and pigment epithelium), 409

— epithelium, and developing chick retina, pentose shunt activity in: a switch in biochemical expression in cultured pigment epithelial cells, 409

—, retinal, and choroid. ATPase activities in, 445

Pigments, amphibian rod, studies on the effects of bleaching *in situ* III. Linear dichroism in axolotl red rods before and during bleaching, 101

—, —, —, —, —, —, —, IV. Photoresponses recorded intracellularly from axolotl red rods following bleaching flashes, 117

Plasma and whole blood, fluorescence characteristics of sodium fluorescein in, 417

PODOS, S. M. (see KRUPIN, T.), 129

Polypeptide, chick lens fiber cell membrane, immunofluorescent study of a, 151

Potentials, intracellular, of isolated rabbit and human corneal endothelium, 511

POTTER, D. E. and ROWLAND, J. M., Adrenergic drugs and intraocular pressure: effects of selective β -adrenergic agonists, 615

Pressure, increased intraocular, and hyperthermia following injection of calcium into the rabbit third ventricle, 129

- , intraocular, a comparison of topical cannabinoids on, 239
- , —, and adrenergic drugs: effects of selective β -adrenergic agonists, 615
- , —, glycosaminoglycan distribution in the rabbit eye: effect of age and dexamethasone, 567
- , —, lowering effect of colchicine, the, 649
- , ophthalmic arterial, a clinical procedure for the measurements of the ocular pulse-pressure relationship and the, 17

PRIEST, D. G. (see CROUCH, R.), 503

PRITCHARD, D. J. (see DE POMERAI, D. I.), 365

Proteins, calf lens soluble, effects of sucrose on interactions of, 553

Proteoglycan biosynthesis in cultures of corneas and corneal stroma cells from adult rabbits, 175

Pulse-pressure relationship, ocular, and the ophthalmic arterial pressure, a clinical procedure for the measurements of the, 17

Pumps, two sodium, in the crystalline lens of the rabbit eye, evidence for, 637

PURTILL, R. A. (see BUBENIK, G. A.), 323

Pyruvate kinase activity in the lens, control of, 39

- , — isozymes in rabbit lens, aging of, 427

Q-switched, neodymium and ruby lasers, a threshold study for; (the role of fluorescein angiography in the detection of laser-induced damage to the retina), 471

Rabbit and human corneal endothelium, isolated, intracellular potentials of, 511

- ciliary epithelium, isolated, adrenergic effects on the, 143
- eye, evidence for two sodium pumps in the crystalline lens of the, 637
- , —, intraocular pressure and glycosaminoglycan distribution in the: effect of age and dexamethasone, 567
- lens, aging of pyruvate kinase isozymes in, 427
- optic nerve, removal of horseradish peroxidase and fluorescein-labelled dextran from CSF spaces of. A light and electron microscopic study, 585
- retina, subcellular distribution of [^3H]choline acetyltransferase, acetylcholinesterase and butyrylcholinesterase activities in, 659
- , —, the effects of total acute ischaemia on the structure of the, 45
- third ventricle, increased intraocular pressure and hypothermia following injection of calcium into the, 129
- uvea during oculomotor nerve stimulation, capillary permeability to albumin in the, 655

Rabbits, adult, proteoglycan biosynthesis in cultures of corneas and corneal stroma cells from, 175

- , dogs and monkeys, renin-angiotensin system in the aqueous humor of, 723
- , the effect of sodium iodate on the ciliary body/iris in, 87

Radioimmunoassay of sheep alpha- and gamma-crystallins. I. ^{125}I Labelling of sheep gamma-crystallin. Characterization of the assays in detecting homologous and heterologous lens crystallins, 61

- , —, —, II. Organ specificity of lens crystallins, 73
- to lens crystallins, the development and application of a, 673

Radioimmunoassays, specific, for human alpha and gamma crystallins, 701

Raman and fluorescent emission of the human lens. A new fluorophor, 737

Rat, demonstration of adrenergic nerve fibres in the nasociliary but not the ophthalmic nerve of the, 607

- , growth of the sphincter muscle and neuroepithelia of the iris and ciliary body in: autoradiographic study, 539
- lens, aging, cataracts in the. Morphology and acid phosphatase histochemistry of incipient forms, 301
- retina, developing, effect of triiodothyronine on glutamine synthetase in the, 681
- , —, glutamine synthetase in the: an immunohistochemical study, 435

Rats, normal, and rats with hereditary retinal degeneration, taurine uptake in isolated retinas of, 191

Receptor binding, muscarinic, and the effect of atropine on the guinea-pig iris, 577
Reductase, glutathione, in normal and cataractous human lenses, 719
Regional analyses of the reversal process in the neonatal galactose cataract, 627
— susceptibility, and progressive galactose cataractogenesis, in the neonatal lens, 275
Renin-angiotensin system in the aqueous humor of rabbits, dogs and monkeys, 723
Retina and the Harderian gland, melatonin in the. Ontogeny, diurnal variations and melatonin treatment, 323
—, developing chick, and pigment epithelium, pentose shunt activity in: a switch in biochemical expression in cultured pigment epithelial cells, 409
—, —, rat, effect of triiodothyronine on glutamine synthetase in the, 681
—, —, glutamine synthetase in the: an immunohistochemical study, 435
—, high affinity uptake sites for taurine in the, 713
—, intact mouse, in situ and in vitro, comparison of cyclic nucleotide and energy metabolism of, 27
—, rabbit, subcellular distribution of [³H]choline acetyltransferase, acetylcholinesterase and butyrylcholinesterase activities in, 659
—, —, the effects of total acute ischaemia on the structure of the, 45
—, the role of fluorescein angiography in the detection of laser-induced damage to the: a threshold study for Q-switched, neodymium and ruby lasers, 471
Retinal degeneration, hereditary, taurine uptake in isolated retinas of normal rats and rats with, 191
— epithelium and tapetum lucidum of the American opossum, microperoxisomes in, 343
— pigment epithelium and choroid, ATPase activities in, 445
Retinas, isolated, of normal rats and rats with hereditary retinal degeneration, taurine uptake in, 191
Retinoblastoma, scanning electron microscopy of, 519
Reversal process in the neonatal galactose cataract, regional analyses of, 627
Rhesus monkey (*Macaca mulatta*), macular degeneration in, 499
— (—), the effect of carotid artery ligation on aqueous humor formation in the, 687
RIEPE, R. E. and NORENBERG, M. D., Effect of triiodothyronine on glutamine synthetase in the developing rat retina, 681
—, —, —, Glutamine synthetase in the developing rat retina: an immunohistochemical study, 435
RILEY, M. V., WINKLER, B. S., BENNER, J. and YATES, E. M., ATPase activities in retinal pigment epithelium and choroid, 445
RINGVOLD A., The effect of sodium iodate on the ciliary body/iris in rabbits, 87
ROBINSON, N. L. (see CRAFT, J. L.), 519
Rod outer segment membranes, concanavalin A binding to: usefulness for preparation of intact disks, 595
— pigments, amphibian, studies on the effects of bleaching, in situ III. Linear dichroism in axolotl red rods before and during bleaching, 101
—, amphibian, studies on the effects of bleaching, IV. Photoresponses recorded intracellularly from axolotl red rods followed bleaching flashes, 117
Rods, axolotl red, before and during bleaching, linear dichroism in. (Studies on the effects of bleaching amphibian rod pigments in situ III), 101
—, —, following bleaching flashes, photoresponses recorded intracellularly from. (Studies on the effects of bleaching amphibian rod pigments IV), 117
ROGERS, K. M. and AUGYSTEYN, R. C., Glutathione reductase in normal and cataractous human lenses, 719
ROSS, K. S., MACRI, F. J. and KUPFER, C., The effect of carotid artery ligation on aqueous humor formation in the rhesus monkey (*Macaca mulatta*), 687
ROTH, N. A. (see CRAFT, J. L.), 519
ROWLAND, J. M. (see POTTER, D. E.), 615
Ruby, Q-switched, and neodymium lasers, a threshold study for; (the role of fluorescein angiography in the detection of laser-induced damage to the retina), 471
RUSSELL, P., CARPER, D. and KINOSHITA, J. H., The development and application of a radioimmunoassay to lens crystallins, 673

SAITO, Y. (see WATANABE, T.), 215
SANDBERG, H. O. and CLOSS, O., Characterization of human lens antigens by crossed immunoelectrophoresis, 457
—, —, —, —, Radioimmunoassay of sheep alpha- and gamma-crystallins. I. ^{125}I Labelling of sheep gamma-crystallin. Characterization of the assays in detecting homologous and heterologous lens crystallins, 61
—, —, —, —, Radioimmunoassay of sheep alpha- and gamma-crystallins II. Organ specificity of lens crystallins, 73
—, —, —, —, Specific radioimmunoassays for human alpha and gamma crystallins, 701
Scanning electron microscopy of retinoblastoma, 519
SCHAPIRA, F. (see BANROQUES, J.), 427
SCHICHI, H. (see ADAMS, A. J.), 595
SCHMIDT, S. Y. and BERSON, E. L., Taurine uptake in isolated retinas of normal rats and rats with hereditary retinal degeneration, 191
SEARS, M. (see YAMASHITA, H.), 199
Segment membranes, rod outer concanavalin A binding to: usefulness for preparation of intact disks, 595
Sheep alpha- and gamma-crystallins radioimmunoassay of, I. ^{125}I Labelling of sheep gamma-crystallin. Characterization of the assays in detecting homologous and heterologous lens crystallins, 61
—, —, —, —, II. Organ specificity of lens crystallins, 73
— gamma-crystallin, ^{125}I Labelling of. Characterization of the assays in detecting homologous and heterologous lens crystallins. (Radioimmunoassay of sheep alpha- and gamma- crystallins I.), 61
SHERMAN, S. H., GREEN, K. and LATIES, A. M., The fate of anterior chamber fluorescein in the monkey eye I. The anterior chamber outflow pathways, 159
Shunt activity, pentose, in developing chick retina and pigment epithelium: a switch in biochemical expression in cultured pigment epithelial cells, 409
Sites, high affinity uptake, for taurine in the retina, 713
Sodium fluorescein in plasma and whole blood, fluorescence characteristics of, 417
— iodate on the ciliary body/iris in rabbits, the effect of, 87
— pumps, two, in the crystalline lens of the rabbit eye, evidence for, 637
Soluble glycosyl transferase, studies on the activity of a, and isolation of a complex containing hyaluronic acid and glycosyl transferase activity, (Biosynthesis of hyaluronic acid in the vitreous. VI.), 259
— proteins, calf lens, effects of sucrose on interactions of, 553
Sphincter muscle and neuroepithelia of the iris and ciliary body in rat, growth of the: autoradiographic study, 539
STJERN SCHANTZ, J. and BILL, A., Capillary permeability to albumin in the rabbit uvea during oculomotor nerve stimulation, 655
STROEVA, O. G., Growth of the sphincter muscle and neuroepithelia of the iris and ciliary body in rat: autoradiographic study, 539
Stroma cells, corneal, and corneas, from adult rabbits, proteoglycan biosynthesis in cultures of, 175
— iridis of man and monkey, the arrangement of the connective tissue in the, 349
Subcellular distribution of [^3H]choline acetyltransferase, acetylcholinesterase and butyrylcholinesterase activities in rabbit retina, 659
Subunit compositions, and isoelectric points, differences in, of δ -crystallins synthesized in lenses cultured with and without vitreous bodies, 227
Sucrose on interactions of calf lens soluble proteins, effects of, 553
Superoxide dismutase activities of bovine ocular tissues, 503
Suppression of corneal epithelial choline acetyltransferase activity by lid closure, 359
Susceptibility, regional, and progressive galactose cataractogenesis, in the neonatal lens, 275
Synthetase, glutamine, in the developing rat retina: an immunohistochemical study, 435
—, —, —, —, —, effect of triiodothyronine on, 681
System, renin-angiotensin, in the aqueous humor of rabbits, dogs and monkeys, 723
TANAKA, M. (see ADAMS, A. J.), 595
Tapetum lucidum, and retinal epithelium, of the American opossum, microperoxisomes in, 343

Taurine in the retina, high affinity uptake sites for, 713
— uptake in isolated retinas of normal rats and rats with hereditary retinal degeneration, 191
Terminals, nerve, after administration of epinephrine, an electron microscopic study of degeneration of, 377
TERVO, T., Demonstration of adrenergic nerve fibres in the nasociliary but not the ophthalmic nerve of the rat, 607
TIFFANY, J. M., Individual variations in human meibomian lipid composition, 289
Timolol, topical, on aqueous humor dynamics, a fluorophotometric study of the effect of, 135
Tissue, connective, in the stroma iridis of man and monkey, the arrangement of the, 349
Tissues, ocular bovine, superoxide dismutase activities of, 503
—, other, and corneal epithelium, of the bovine eye, demonstration of common antigenicity in. (Ocular antigens IX), 81
Toad, characteristics of ion transport across the isolated ciliary epithelium of the, as studied by electrical measurements, 215
TO'MEY, K. F. (see LANGHAM, M. E.), 17
Topical cannabinoids on intraocular pressure, a comparison of, 239
— timolol on aqueous humor dynamics, a fluorophotometric study of the effect of, 135
Total acute ischaemia on the structure of the rabbit retina, the effects of, 45
Transferase activity, glycosyl, isolation of a complex containing hyaluronic acid and, and studies on the activity of a soluble glycosyl transferase, (Biosynthesis of hyaluronic acid in the vitreous. VI), 259
—, particulate hyalocyte glycosyl, studies on a (Biosynthesis of hyaluronic acid in the vitreous. V), 247
Triiodothyronine on glutamine synthetase in the developing rat retina, effect of, 681

Ultrastructural abnormalities in a microspherical ectopic lens, 399
Uptake sites, high affinity, for taurine in the retina, 713
—, taurine, in isolated retinas of normal rats and rats with hereditary retinal degeneration, 191
Uvea, rabbit, during oculomotor nerve stimulation, capillary permeability to albumin in the, 655

VAN DER ZYPEN, E., The arrangement of the connective tissue in the stroma iridis of man and monkey, 349
Vasoactive, and parasympathetic, drugs on ciliary epithelium permeability, effect of, 533
Ventricle, rabbit third, increased intraocular pressure and hypothermia following injection of calcium into the, 129
VERMORKEN, A. J. M., HILDERINK, J. M. H. C., BLOEMENDAL, H., DUNIA, I. and BENEDETTI, E. L., Nuclei from lens epithelium, 727
Vervet monkey, influences of cyclic nucleotides on outflow facility in the, 387
Vitreous biosynthesis of hyaluronic acid in the. V. Studies on a particulate hyalocyte glycosyl transferase, 247
—, —, —, —, — VI. Isolation of a complex containing hyaluronic acid and glycosyl transferase activity and studies on the activity of a soluble glycosyl transferase, 259
— bodies, differences in isoelectric points and subunit compositions of δ -crystallins synthesized in lenses cultured with and without, 227
VIVEASH, J. P. (see BORLAND, R. G.), 471
VOADEN, M. J. (see LAKE, N.), 713

WAGGONER, P. R. and MAISEL, H., Immunofluorescent study of a chick lens fiber cell membrane polypeptide, 151
WALTMAN, S. R. (see YABLONSKI, M. E.), 135
WATANABE, T. and SAITO, Y., Characteristics of ion transport across the isolated ciliary epithelium of the toad as studied by electrical measurements, 215
WEBB, R. H. (see DELORI, F. C.), 417
WEINSTEIN, H. G. (see KNEPPER, P. A.), 567
Whole blood, and plasma, fluorescence characteristics of sodium fluorescein in, 417
WIEDERHOLT, M. and KOCH, M., Intracellular potentials of isolated rabbit and human corneal endothelium, 511
WINKLER, B. S. (see RILEY, M. V.), 445
WOLLENSAK, J. (see KRAMPS, J. A.), 731

WOOD, I. (see FLACH, A.), 377

WYNN, H. (see GREEN, K.), 239

YABLONSKI, M. E., ZIMMERMAN, T. J., WALTMAN, S. R. and BECKER, B., A fluorophotometric study of the effect of topical timolol on aqueous humor dynamics, 135

YAMAMOTO, K. (see IKEMOTO, F.), 723

YAMASHITA, H. and SEARS, M., Proof that the ciliary epithelium can regenerate, 199

YATES, E. M. (see RILEY, M. V.), 445

YEH, C-K. (see BEYER-MEARS, A.), 627

YU, N-T. (see KUCK, J. F. R. Jr.), 737

ZIMMERMAN, T. J. (see YABLONSKI, M. E.), 135

